CONTENTS—1992, Nos.1–4

ABLE, K. W. (*see* Szedlmayer, S. T.)

ALBERTS, ALLISON C. Pheromonal self-recognition in desert iguanas 229

ALDRIDGE, ROBERT D. Oviductal anatomy and seasonal sperm storage in the southeastern crowned snake (*Tantilla coronata*) 1103

ALFORD, R. A. (*see* Richards, S. J.)

AMATO, GEORGE D. (*see* Gatesy, John)

ANDERSON, SCOT D. (*see* Klimley, A. Peter)

ANDREWS, R. M. (*see* Sexton, O. J.)

AYVAZIAN, SUZANNE G. AND WILLIAM H. KRUEGER. Lateral plate ontogeny in the North American ninespine stickleback, *Pungitius occidentalis* 209

BAILEY, REEVE M. (*see* Waldman, John R.)

BAKER, JOHN A. (*see* Heins, David C.)

BANNIKOV, ALEXANDRE F. (*see* Tyler, James C.)

BART, HENRY L., JR. Spawning behavior of *Etheostoma davisoni* Hay 537

BATRA, PUJA (*see* Morris, Molly R.)

BEAMISH, RICHARD J. AND CHRYS-ELLEN M. NEVILLE. The importance of size as an isolating mechanism in lampreys 191

BECKON, WILLIAM N. The giant Pacific geckos of the genus *Gehyra*: morphological variation, distribution, and biogeography 443

BEGLE, DOUGLAS P. Monophyly and relationships of the argentinoid fishes 350

BELS, VINCENT L., JEAN-PAUL THEYS, MICHAEL B. BENNETT AND L. LEGRAND. Biochemical analysis of jumping in *Anolis carolinensis* (Reptilia: Iguanidae) 492

BENNETT, MICHAEL B. (*see* Bels, Vincent L.)

BENNETT, WAYNE A. AND FRANK W. JUDD. Comparison of methods for determining low temperature tolerance: experiments with pinfish, *Lagodon rhomboides* 1059

BESTGEN, KEVIN R. (*see* Cook, Joseph A.)

BJORNDAL, KAREN A. (*see* Bolten, Alan B.)

BJORNDAL, KAREN A. AND ALAN B. BOLTEN. Spatial distribution of green turtle (*Chelonia mydas*) nests at Tortuguero, Costa Rica 45

BLAUSTEIN, ANDREW R. (*see* Peterson, Jeffrey A.)

BOLTEN, ALAN B. (*see* Bjorndal, Karen A.)

BOLTEN, ALAN B., KAREN A. BJORNDAL, JANICE S. GRUMBLES AND DAVID W. OWENS. Sex ratio and sex-specific growth rates of immature green turtles, *Chelonia mydas*, in the southern Bahamas 1098

BRAMBLE, J. E. (*see* Sexton, O. J.)

BROWN, C. RANDELL, MALCOLM S. GORDON AND KAREN L. M. MARTIN. Aerial and aquatic oxygen uptake in the amphibious Red Sea rockskipper fish, *Alticus kirki* (Family Blenniidae) 1007

BROWN, WESLEY M. (*see* Dowling, Thomas E.)

BRUSSARD, PETER F. (*see* Kaya, Calvin M.)

BUCKUP, PAULO ANDREAS. Redescription of *Characidium fasciatum* type species of the Characidiinae (Teleostei, Characiformes) 1066

BURRIDGE, MARY E. Systematics of the *Acanthophthalmus kuhlii* complex (Teleostei: Cobitidae), with a description of a new species from Sarawak and Brunei 172

BUTH, DONALD G. (*see* Haglund, Thomas R.)

BUTH, DONALD G. (*see* Page, Lawrence M.)

BUTH, DONALD G., THOMAS R. HAGLUND AND W. L. MINCKLEY. Duplicate gene expression and allozyme divergence diagnostic for *Catostomus tahoensis* and the endangered *Chasmistes cujus* in Pyramid Lake, Nevada 935

CAMERON, DAVID G. (*see* Kaya, Calvin M.)

CARAMASCHI, ULISSES, HELIO R. DA SILVA AND MONICA C. DE BRITTO-PEREIRA. A new species of *Phyllodytes* (Anura, Hylidae) from southern Bahia, Brazil 187

CARON, SIGALIT (FEINSILBER) AND WALTER J. RAINBOTH. Field analysis of color cues that elicit territorial behavior in the Garibaldi, *Hypsypops rubicundus* (Pomacentridae) 1080

CASHNER, ROBERT C. (*see* Gilbert, Carter R.)

CASTILLO-RIVERA, MANUEL AND ABRAHAM KOBELKOWSKY. First record of reversal in the flounder *Citharichthys spilopterus* (Bothidae) 1094

CEAS, PATRICK A. (*see* Page, Lawrence M.)

CESTARI, MARTA M. AND PEDRO M. GALETTI, JR. Chromosome studies of *Serrasalmus spilopleura* (Characidae, Serrasalminae) from the Paraná-Paraguay rivers: evolutionary and cytotaxonomic considerations 108

CHAPMAN, COLIN A. (*see* Chapman, Lauren J.)
CHAPMAN, LAUREN J. AND COLIN A. CHAPMAN. Variation in the structure of *Poecilia gillii* populations 908
CLARK, KENNETH L. (*see* Crump, Martha L.)
COBB, VINCENT (*see* Ford, Neil B.)
COBURN, MILES M. AND JOSEPH I. GAGLIONE. A comparative study of percid scales (Teleostei: Perciformes) 986
COLLINS, JAMES P. (*see* Reilly, Stephen M.)
COLLINS, JAMES P. (*see* Sredl, Michael J.)
COOK, JOSEPH A., KEVIN R. BESTGEN, DAVID L. PROPST AND TERRY L. YATES. Allozymic divergence and systematics of the Rio Grande silvery minnow, *Hybognathus amarus* (Teleostei: Cyprinidae) 36
COOPER, WILLIAM E., JR. Prey odor discrimination and poststrike elevation in tongue flicking by a cordylid lizard, *Gerrhosaurus nigrolineatus* 146
COSTANZO, JON P., MICHAEL F. WRIGHT AND RICHARD E. LEE, JR. Freeze tolerance as an overwintering adaptation in Cope's grey treefrog (*Hyla chrysocelis*) 565
CRUMP, MARTHA L., FRANK R. HENSLEY AND KENNETH L. CLARK. Apparent decline of the golden toad: underground or extinct? 413
DA SILVA, HELIO R. (*see* Caramaschi, Ulisses)
DAWLEY, ELLEN M. Sexual dimorphism in a chemosensory system: the role of the vomeronasal organ in salamander reproductive behavior 113
DE BRITTO-PEREIRA, MONICA C. (*see* Caramaschi, Ulisses)
DELGADO, IMELDA (*see* Hernandez-Juviel, Jose M.)
DEMARAIS, BRUCE D. AND W. L. MINCKLEY. Hybridization in native cyprinid fishes, *Gila ditaenia* and *Gila* sp., in northwestern Mexico 697
DIMMICK, WALTER W. AND LAWRENCE M. PAGE. Systematic significance of lactate dehydrogenase variation at the generic level in percids 535
DOUGLAS, MICHAEL E. (*see* Norris, Steven M.)
DOWLING, THOMAS E., WALTER R. HOEH, GERALD R. SMITH AND WESLEY M. BROWN. Evolutionary relationships of shiners in the genus *Luxilus* (Cyprinidae), as determined by analysis of mitochondrial DNA 306
DRYDEN, G. L., BRIAN GREEN, E. D. WIKRAMANAYAKE AND K. G. DRYDEN. Energy and water turnover in two tropical varanid lizards, *Varanus bengalensis* and *V. salvator* 102
DRYDEN, K. G. (*see* Dryden, G. L.)
DUBOIS, ALAIN AND W. RONALD HEYER. *Leptodactylus labialis*, the valid name for the American white-lipped frog (Amphibia: Leptodactylidae) 584
DU-BOUCHET, ALEJANDRO (*see* Rodriguez, Lucrecia H.)
DUELLMAN, WILLIAM E. AND RANIER SCHULTE. Description of a new species of *Bufo* from northern Peru with comments on phenetic groups of South American toads (Anura: Bufonidae) 162
DUNLAP, WILLIAM P. (*see* Heins, David C.)
DUTTA, HIRAN M. (*see* Hossain, Amjad M.)
DYSON, MIRANDA L. AND NEVILLE I. PASSMORE. Effect of intermale spacing on female frequency preferences in the painted reed frog 1111
EMERSON, SHARON B. Courtship and nest-building behavior of a Bornean frog, *Rana blythi* 1123
FAHAY, MICHAEL P. Development and distribution of cusk eel eggs and larvae in the Middle Atlantic Bight with a description of *Ophidion robinsi* n. sp. (Teleostei: Ophidiidae) 799
FAHEY, KENNETH M. (*see* Lovich, Jeffrey E.)
FAUTIN, DAPHNE G. (*see* Godwin, John)
FELGENHAUER, BRUCE E. (*see* Simons, Richard R.)
FISHELSON, L. Comparative gonad morphology and sexuality of the Muraenidae (Pisces, Teleostei) 197
FORD, NEIL B. AND VINCENT COBB. Timing of courtship in two colubrid snakes of the southern United States 573
FORSMAN, A. (*see* Merila, J.)
FOX, STANLEY F. (*see* McCoy, J. Kelly)
FREEMAN, MARY C. AND GARY D. GROSSMAN. A field test for competitive interactions among foraging stream fishes 898
GAGLIONE, JOSEPH I. (*see* Coburn, Miles M.)
GAGO, F. JAVIER AND ROBERT J. LAVENBERG. Systematics of the lanternfish genus *Centrobranchus* (Pisces: Myctophidae) 154
GAJARDO, GONZALO M. Karyotypes of *Basilichthys microlepidotus* and *B. australis* (Pisces: Atherinidae) 256
GALETTI, PEDRO M., JR. (*see* Cestari, Marta M.)
GARRIDO, ORLANDO H. (*see* Hedges, S. Blair)

GASCON, CLAUDE. Spatial distributions of *Osteocephalus taurinus* and *Pipa arrabali* in a central Amazonian forest 894
GATESY, JOHN AND GEORGE D. AMATO. Sequence similarity of 12S ribosomal segment of mitochondrial DNAs of gharial and false gharial 241
GERMANO, DAVID J. Longevity and age-size relationships of populations of desert tortoises 367
GILBERT, CARTER R., ROBERT C. CASHNER AND EDWARD O. WILEY. Taxonomic and nomenclatural status of the banded topminnow, *Fundulus cingulatus* (Cyprinodontiformes: Cyprinodontidae) 747
GOBALET, KENNETH W. AND ROBERT M. NEGRINI. Evidence for endemism in fossil Tui chub, *Gila bicolor*, from Pleistocene Lake Chewaucan, Oregon 539
GODWIN, JOHN AND DAPHNE G. FAUTIN. Defense of host actinians by anemonefishes 902
GOLD, JOHN R. (*see* Powers, Patricia K.)
GOLLMAN, GUNTER. The relationship of batrachology to herpetology 887
GORDON, MALCOLM S. (*see* Brown, C. Randell)
GREEN, BRIAN (*see* Dryden, G. L.)
GREEN, MARY (*see* Jacobson, Elliott R.)
GROBECKER, DAVID B. (*see* Pietsch, Theodore W.)
GROSSMAN, GARY D. (*see* Freeman, Mary C.)
GRUMBLES, JANICE S. (*see* Bolten, Alan B.)
GVARYAHU, G. (*see* Morpurgo, B.)
HAGLUND, THOMAS R. (*see* Buth, Donald G.)
HAGLUND, THOMAS R., DONALD G. BUTH AND ROBIN LAWSON. Allozyme variation and phylogenetic relationships of Asian, North American, and European populations of the threespine stickleback, *Gasterosteus aculeatus* 432
HANEY, DENNIS C. (*see* Nordlie, Frank G.)
HARDISON, PRESTON D. (*see* Sikkel, Paul C.)
HARRIS, REID N. (*see* Jamison, Joressia A.)
HASS, CARLA ANN AND S. BLAIR HEDGES. Karyotype of the Cuban lizard *Cricosaura typica* and its implications for xantusiid phylogeny 563
HASTINGS, PHILIP A. *Ekemblemaria lira*, a new blennioid fish from Ecuador, with comments on sexual dimorphism and relationships in *Ekemblemaria* (Teleostei: Chaenopsidae) 769
HAYASHI, TERUTAKE (*see* Matsui, Masafumi)
HEDGES, S. BLAIR (*see* Hass, Carla Ann)
HEDGES, S. BLAIR AND ORLANDO H. GARRIDO. A new species of *Tropidophis* from Cuba (Serpentes: Tropidophiidae) 820
HEDGES, S. BLAIR AND ANDREAS SCHLUTER. *Eleutherodactylus eurydactylus*, a new species of frog from Central Amazonian Peru (Anura: Leptodactylidae) 1002
HEINS, DAVID C., JOHN A. BAKER AND WILLIAM P. DUNLAP. Yolk loading in oocytes of darters and its consequences for life-history study 404
HEMMER, MICHAEL J. (*see* Middaugh, Douglas P.)
HENDERSON, R. P. (*see* Klimley, A. Peter)
HENSLEY, FRANK R. (*see* Crump, Martha L.)
HERMAN, DENNIS W. (*see* Lovich, Jeffrey E.)
HERNANDEZ-JUVIEL, JOSE M., DAVID J. MORAFKA, IMELDA DELGADO, GARY D. SCOTT AND ROBERT W. MURPHY. Effect of enzyme dilution on the relative electrophoretic mobility of glutamate dehydrogenase isozymes in the prairie rattlesnake, *Crotalus viridis viridis* 1117
HEYER, W. RONALD (*see* Dubois, Alain)
HILLYARD, STANLEY (*see* Winokur, Robert M.)
HOEH, WALTER R. (*see* Dowling, Thomas E.)
HOSSAIN, AMJAD M. AND HIRAN M. DUTTA. Role of caeca as food reservoirs in the digestive tract of bluegill fish, *Lepomis macrochirus* 544
HOUGH, DANIEL J. (*see* Matthews, William J.)
HOWLAND, JEFFREY M. Life history of *Cophosaurus texanus* (Sauria: Iguanidae): environmental correlates and interpopulation variation 82
INGER, ROBERT F. A bimodal feeding system in a stream-dwelling larva of *Rhacophorus* from Borneo 887
JACOBSON, ELLIOTT R., JUERGEN SCHUMACHER AND MARY GREEN. Field and clinical techniques for sampling and handling blood for hematologic and selected biochemical determinations in the desert tortoise, *Xerobates agassizzii* 237
JAMISON, JORESSIA A. AND REID N. HARRIS. The priority of linear over volumetric caudal regeneration in the salamander *Plethodon cinereus* (Caudata: Plethodontidae) 235
JANSSEN, JOHN (*see* Jones, Warren R.)

JANSSEN, JOHN, JOHN C. MONTGOMERY AND RAY TIEN. Social rotational feeding in *Pagothenia borchgrevinki* (Pisces: Nototheniidae) 559
JOHNSON, G. DAVID. Monophyly of the euteleostean clades—Neoteleostei, Eurypterygii, and Ctenosquamata 8
JONES, WARREN R. AND JOHN JANSSEN. Lateral line development and feeding behavior in the mottled sculpin, *Cottus bairdi* (Scorpaeniformes: Cottidae) 485
JUDD, FRANK W. (*see* Bennett, Wayne A.)
KAPLAN, ROBERT H. (*see* Parichy, David M.)
KARDONG, KENNETH V. (*see* Zalisko, Edward J.)
KATS, LEE B. AND ANDREW SIH. Oviposition site selection and avoidance of fish by streamside salamanders (*Ambystoma barbouri*) 468
KAYA, CALVIN M., PETER F. BRUSSARD, DAVID G. CAMERON AND ERNEST R. VYSE. Biochemical genetics and thermal tolerances of Kendall Warm Springs dace (*Rhinichthys osculus thermalis*) and Green River speckled dace (*R. o. yarrowi*) 528
KLAUDA, RONALD J. (*see* Victoria, Christopher J.)
KLIMLEY, A. PETER, SCOT D. ANDERSON, PETER PYLE AND R. P. HENDERSON. Spatiotemporal patterns of white shark (*Carcharodon carcharias*) predation at the South Farallon Islands, California 680
KNIGHT, JEREMY G. (*see* Ross, Stephen T.)
KOBELKOWSKY, ABRAHAM (*see* Castillo-Rivera, Manuel)
KRUEGER, WILLIAM H. (*see* Ayvazian, Suzanne G.)
LAHANAS, PETE N. AND JAY M. SAVAGE. A new species of caecilian from the Peninsula de Osa of Costa Rica 703
LAST, P. R. (*see* Yearsley, G. K.)
LAUDER, GEORGE V. (*see* Reilly, Stephen M.)
LAVENBERG, ROBERT J. (*see* Gago, F. Javier)
LAWSON, ROBIN (*see* Haglund, Thomas R.)
LEE, JULIAN C. *Anolis sagrei* in Florida: phenetics of a colonizing species III. West Indian and Middle American comparisons 942
LEE, RICHARD E., JR. (*see* Costanzo, Jon P.)
LEGRAND, L. (*see* Bels, Vincent L.)
LINDELL, L. E. (*see* Merila, J.)
LORENZ, JEROME J. AND DOUGLAS H. TAYLOR. The effects of low pH as a chemical stressor on the ability of convict cichlids (*Cichlasoma nigrofasciatum*) to successfully brood their young 832
LOSOS, JONATHAN B. A critical comparison of the taxon-cycle and character-displacement models for size evolution of *Anolis* lizards in the Lesser Antilles 279
LOVICH, JEFFREY E., DENNIS W. HERMAN AND KENNETH M. FAHEY. Seasonal activity and movements of bog turtles (*Clemmys muhlenbergii*) in North Carolina 1107
LOVULLO, T. J., J. R. STAUFFER, JR. AND K. R. MCKAYE. Diet and growth of a brood of *Bagrus meridionalis* Gunther (Siluriformes: Bagridae) in Lake Malawi, Africa 1084
LUCENA, CARLOS A. S., LUIZ R. MALABARBA AND ROBERTO E. REIS. Resurrection of the Neotropical pimelodid catfish *Parapimelodus nigribarbis* (Boulenger), with a phylogenetic diagnosis of the genus *Parapimelodus* (Teleostei: Siluriformes) 138
LYNCH, JOHN D. A new species of *Eleutherodactylus* (Amphibia: Leptodactylidae) from western Colombia with cranial co-ossification 826
MALABARBA, LUIZ R. (*see* Lucena, Carlos A. S.)
MARCONATO, ANDREA (*see* Rasotto, Maria B.)
MARTIN, KAREN L. M. (*see* Brown, C. Randell)
MATSON, RONALD H. (*see* Mayden, Richard L.)
MATSUI, MASAFUMI AND TERUTAKE HAYASHI. Genetic uniformity in the Japanese giant salamander, *Andrias japonicus* 232
MATTHEWS, WILLIAM J., DANIEL J. HOUGH AND HENRY W. ROBISON. Similarities in fish distribution and water quality patterns in streams in Arkansas: congruence in multivariate analyses 296
MAURAKIS, EUGENE G. AND WILLIAM S. WOOLCOTT. An intergeneric cyprinid hybrid, *Phoxinus oreas* × *Semotilus atromaculatus*, from the James River drainage, Virginia 548
MAYDEN, RICHARD L. (*see* Wood, Robert M.)
MAYDEN, RICHARD L. AND RONALD H. MATSON. Systematics and biogeography of the Tennessee shiner, *Notropis leuciodus* (Cope) (Teleostei: Cyprinidae) 954
MCCLURE, MATTHEW R. AND JOHN D. MCEACHRAN. Hybridization between *Prionotus alatus* and *P. paralatus* in the Northern Gulf of Mexico (Pisces: Triglidae) 1039

McCoy, J. Kelly and Stanley F. Fox. A redescription of the Mexican lizard *Barisia rudicollis* (Weigmann) (Sauria: Anguidae) 1114
McDiarmid, Roy W. (*see* Savage, Jay M.)
McDowall, R. M. Diadromy: origins and definitions of terminology 248
McEachran, John D. (*see* McClure, Matthew R.)
McKaye, K. R. (*see* LoVullo, T. J.)
Meffe, Gary K. Plasticity of life-history characters in eastern mosquitofish (*Gambusia holbrooki*: Poeciliidae) in response to thermal stress 94
Merila, J., A. Forsman and L. E. Lindell. High frequency of ventral scale anomalies in *Vipera berus* populations 1127
Middaugh, Douglas P. and Michael J. Hemmer. Reproductive ecology of the inland silverside, *Menidia beryllina*, (Pisces: Atherinidae) from Blackwater Bay, Florida 53
Middendorf, George A., III and Wade C. Sherbrooke. Canid elicitation of blood-squirting in a horned lizard (*Phrynosoma cornutum*) 519
Miles, Donald B. (*see* Reznick, David N.)
Miller, Peter J. The sperm duct gland: a visceral synapomorphy for gobioid fishes 253
Minckley, W. L. (*see* Buth, Donald G.)
Minckley, W. L. (*see* DeMarais, Bruce D.)
Montgomery, John C. (*see* Janssen, John)
Morafka, David J. (*see* Hernandez-Juviel, Jose M.)
Morpurgo, B., G. Gvaryahu and B. Robinzon. Effects of population density, size, and gender on plasma testosterone, thyroxine, hematocrit, and calcium in juvenile Nile crocodiles (*Crocodylus niloticus*) in captivity 1023
Morris, Molly R., Puja Batra and Michael J. Ryan. Male-male competition and access to females in the swordtail *Xiphophorus nigrensis* 980
Morris, Molly R. and Michael J. Ryan. Breeding cycles in natural populations of *Xiphophorus nigrensis*, *X. multilineatus*, and *X. pygmaeus* 1074
Morrison, Carol M. (*see* Renaud, Claude B.)
Murphy, Robert W. (*see* Hernandez-Juviel, Jose M.)
Musick, John A. (*see* Yano, Kazunari)
Negrini, Robert M. (*see* Gobalet, Kenneth W.)
Neville, Chrys-Ellen M. (*see* Beamish, Richard J.)
Nordlie, Frank G., Dennis C. Haney and Steven J. Walsh. Comparisons of salinity tolerances and osmotic regulatory capabilities in populations of sailfin molly (*Poecilia latipinna*) from brackish and fresh waters 741
Norris, Steven M. and Michael E. Douglas. Geographic variation, taxonomic status, and biogeography of two widely distributed African freshwater fishes: *Ctenopoma petherici* and *C. kingsleyae* (Teleostei: Anabantidae) 709
O'Connor, Michael P. and C. Richard Tracy. Thermoregulation by juvenile toads of *Bufo woodhousei* in the field and in the laboratory 865
Ovaska, Kristiina. Short- and long-term movements of the frog *Eleutherodactylus johnstonei* in Barbados, West Indies 569
Owens, David W. (*see* Bolten, Alan B.)
Packard, Gary C. (*see* Packard, Mary J.)
Packard, Mary J., John A. Phillips and Gary C. Packard. Sources of mineral for green iguanas (*Iguana iguana*) developing in eggs exposed to different hydric environments 851
Page, Lawrence M. (*see* Dimmick, Walter W.)
Page, Lawrence M., Patrick A. Ceas, David L. Swofford and Donald G. Buth. Evolutionary relationships within the *Etheostoma squamiceps* complex (Percidae: subgenus *Catonotus*) with descriptions of five new species 615
Parichy, David M. and Robert H. Kaplan. Developmental consequences of tail injury on larvae of the Oriental fire-bellied toad, *Bombina orientalis* 129
Parsons, Glenn R. and James L. Sylvester, Jr. Swimming efficiency of the white crappie, *Pomoxis annularis* 1033
Passmore, Neville I. (*see* Dyson, Miranda L.)
Perez, Sergio Mussot. (*see* Van Der Heiden, Albert M.)
Perry, Elgin S. (*see* Victoria, Christopher J.)
Peterson, Jeffrey A. and Andrew R. Blaustein. Relative palatabilities of anuran larvae to natural aquatic insect predators 577

PHILLIPS, JOHN A. (*see* Packard, Mary J.)
PIETSCH, THEODORE W., DAVID B. GROBECKER AND BILL STOCKLY. The sargassum frogfish, *Histrio histrio* (Linnaeus) (Lophiformes: Antennariidae), on the Pacific Plate 247
PLUMMER, MICHAEL V. Relationships among mothers, litters, and neonates in diamondback water snakes (*Nerodia rhombifer*) 1096
POWERS, PATRICIA K. AND JOHN R. GOLD. Cytogenetic studies in North American minnows (Cyprinidae). XX. Chromosomal NOR variation in the genus *Luxilus* 332
PRICE, ANDREW H. Comparative behavior in lizards of the genus *Cnemidophorus* (Teiidae), with comments on the evolution of parthenogenesis in reptiles 323
PROPST, DAVID L. (*see* Cook, Joseph A.)
PYLE, PETER (*see* Klimley, A. Peter)
RAINBOTH, WALTER J. (*see* Caron, Sigalit (Feinsilber))
RANDALL, JOHN E. AND JACQUES RIVATON. *Erythrocles taeniatus,* a new emmelichthyid fish from New Caledonia 1028
RASOTTO, MARIA BERICA. Gonadal differentiation and the mode of sexuality in *Cobitis taenia* (Teleostei: Cobitidae) 223
RASOTTO, MARIA B., ANDREA MARCONATO AND DOUGLAS Y. SHAPIRO. Reproductive apparatus of two jawfish species (Opisthognathidae) with description of a juxta-testicular body 1046
REAGAN, DOUGLAS P. Congeneric species distribution and abundance in a three-dimensional habitat: the rain forest anoles of Puerto Rico 392
REILLY, STEPHEN M., GEORGE V. LAUDER AND JAMES P. COLLINS. Performance consequences of a trophic polymorphism: feeding behavior in typical and cannibal phenotypes of *Ambystoma tigrinum* 672
REIS, ROBERTO E. (*see* Lucena, Carlos A. S.)
REIS, ROBERTO E. AND SCOTT A. SCHAEFER. *Eurycheilus pantherinus* (Siluroidei: Loricariidae), a new genus and species of Hypoptopomatinae from southern Brazil 215
RENAUD, CLAUDE B. AND CAROL M. MORRISON. Histological evidence from contact organs for the respective monophyly of the genera *Gadus* and *Boreogadus* (Gadidae) 1088
RENDER, JEFFREY H. AND CHARLES A. WILSON. Sexuality of the sheepshead *Archosargus probatocephalus* (Teleostei: Sparidae) from the Northern Gulf of Mexico 917
REZNICK, DAVID N., DONALD B. MILES AND STEVEN WINSLOW. Life history of *Poecilia picta* (Poeciliidae) from the island of Trinidad 782
RICHARDS, S. J. AND R. A. ALFORD. Nest construction by an Australian rainforest frog of the *Litoria lesueuri* complex (Anura: Hylidae) 1120
RIVATON, JACQUES (*see* Randall, John E.)
ROBINZON, B. (*see* Morpurgo, B.)
ROBISON, HENRY W. (*see* Matthews, William J.)
RODRIGUEZ, LUCRECIA H., ALEJANDRO DU-BOUCHET AND MICHAEL LEONARD SMITH. Phylogenetic position of the Cuban poeciliid fish, *Giardinus creolus* (Cyprinodontiformes) 474
RODRIGUEZ-ROBLES, JAVIER A. AND RICHARD THOMAS. Venom function in the Puerto Rican racer, *Alsophis portoricensis* (Serpentes: Colubridae) 62
ROSENBERG, HERBERT I. An improved method for collecting secretion from Duvernoy's gland of colubrid snakes 244
ROSS, STEPHEN T., JEREMY G. KNIGHT AND S. DAVID WILKENS. Distribution and microhabitat dynamics of the threatened bayou darter, *Etheostoma rubrum* 658
ROUGHGARDEN, JONATHAN. Comments on the paper by Losos: character displacement versus taxon loop 288
ROUNTREE, R. A. (*see* Szedlmayer, S. T.)
RYAN, MICHAEL J. (*see* Morris, Molly R.)
SALMON, MICHAEL (*see* Wyneken, Jeanette)
SAVAGE, JAY M. (*see* Lahanas, Pete N.)
SAVAGE, JAY M. AND ROY W. MCDIARMID. Rediscovery of the Central American colubrid snake, *Sibon argus,* with comments on related species from the region 421
SCHAEFER, SCOTT A. (*see* Reis, Roberto E.)
SCHLUTER, ANDREAS (*see* Hedges, S. Blair)
SCHULTE, RANIER (*see* Duellman, William E.)
SCHUMACHER, JUERGEN (*see* Jacobson, Elliott R.)
SCOTT, GARY D. (*see* Hernandez-Juviel, Jose M.)
SEXTON, O. J., R. M. ANDREWS AND J. E. BRAMBLE. Size and growth rate characteristics of a peripheral population of *Crotaphytus collaris* (Sauria: Crotaphytidae) 968
SHAPIRO, DOUGLAS Y. (*see* Rasotto, Maria B.)
SHERBROOKE, WADE C. (*see* Middendorf, George A., III)

SHIRAI, SHIGERU. Phylogenetic relationships of the angel sharks, with comments on elasmobranch phylogeny (Chondrichthyes, Squatinidae) 505
SIH, ANDREW (*see* Kats, Lee B.)
SIKKEL, PAUL C. AND PRESTON D. HARDISON. Interspecific feeding associations between the goatfish *Mulloides martinicus* (Mullidae) and a possible aggressive mimic, the snapper *Ocyurus chrysurus* (Lutjanidae) 914
SIMONS, RICHARD R. AND BRUCE E. FELGENHAUER. Identifying areas of chemical signal production in the red-backed salamander, *Plethodon cinereus* 776
SMINKEY, THOMAS R. AND CHRISTOPHER R. TABIT. Reproductive biology of the chain dogfish, *Scyliorhinus retifer*, from the Mid-Atlantic Bight 251
SMITH, GERALD R. (*see* Dowling, Thomas E.)
SMITH, MICHAEL LEONARD (*see* Rodriguez, Lucrecia H.)
SREDL, MICHAEL J. AND JAMES P. COLLINS. The interaction of predation, competition, and habitat complexity in structuring an amphibian community 607
STAUFFER, J. R., JR. (*see* LoVullo, T. J.)
STEPIEN, CAROL A. Evolution and biogeography of the Clinidae (Teleostei: Blennioidei) 375
STOCKLY, BILL (*see* Pietsch, Theodore W.)
SULLIVAN, BRIAN K. Sexual selection and calling behavior in the American toad (*Bufo americanus*) 1
SULLIVAN, BRIAN K. (*see* Wagner, William E., Jr.)
SWOFFORD, DAVID L. (*see* Page, Lawrence M.)
SYLVESTER, JAMES L., JR. (*see* Parsons, Glenn R.)
SZEDLMAYER, S. T., K. W. ABLE AND R. A. ROUNTREE. Growth and temperature-induced mortality of young-of-the-year summer flounder (*Paralichthys dentatus*) in southern New Jersey 120
TABIT, CHRISTOPHER R. (*see* Sminkey, Thomas R.)
TAYLOR, DOUGLAS H. (*see* Lorenz, Jerome J.)
THEYS, JEAN-PAUL (*see* Bels, Vincent L.)
THOMAS, RICHARD (*see* Rodriguez-Robles, Javier A.)
THOMPSON, GRAHAM G. AND PHILIP C. WITHERS. Effects of body mass and temperature on standard metabolic rates for two Australian varanid lizards (*Varanus gouldii* and *V. panoptes*) 343
TIEN, RAY (*see* Janssen, John)
TRACY, C. RICHARD (*see* O'Connor, Michael P.)
TYLER, JAMES C. AND ALEXANDRE F. BANNIKOV. New genus of primitive ocean sunfish with separate premaxillae from the Eocene of southwest Russia (Molidae, Tetraodontiformes) 1014
VAN DER HEIDEN, ALBERT M. AND SERGIO MUSSOT PEREZ. Secondary sexual dimorphism and dichromatism in Gulf of California flatfishes 1077
VICTORIA, CHRISTOPHER J., BONNIE S. WILKERSON, RONALD J. KLAUDA AND ELGIN S. PERRY. Salinity tolerance of yellow perch eggs and larvae from coastal plain stream populations in Maryland, with comparison to a Pennsylvania lake population 859
VYSE, ERNEST R. (*see* Kaya, Calvin M.)
WAGNER, WILLIAM E., JR. AND BRIAN K. SULLIVAN. Chorus organization in the Gulf Coast toad (*Bufo valliceps*): male and female behavior and the opportunity for sexual selection 647
WALDMAN, JOHN R. AND REEVE M. BAILEY. Early occurrence of natural hybridization within *Morone* (Perciformes) 553
WALSH, STEVEN J. (*see* Nordlie, Frank G.)
WARKENTIN, K. M. Effects of temperature and illumination on feeding rates of green frog tadpoles (*Rana clamitans*) 725
WARKENTIN, K. M. Microhabitat use and feeding rate variation in green frog tadpoles (*Rana clamitans*) 731
WASSERSUG, RICHARD. The basic mechanics of ascent and descent by anuran larvae (*Xenopus laevis*) 890
WELLINGTON, GERARD M. *Xyrichtys victori*, a new species of razorfish from the Galapagos Islands (Teleostei: Labridae) 1053
WERNER, EARL E. Competitive interactions between wood frog and northern leopard frog larvae: the influence of size and activity 26
WIKRAMANAYAKE, E. D. (*see* Dryden, G. L.)
WILEY, EDWARD O. (*see* Gilbert, Carter R.)
WILKERSON, BONNIE S. (*see* Victoria, Christopher J.)
WILKINS, S. DAVID (*see* Ross, Stephen T.)
WILSON, BYRON S. AND JOHN C. WINGFIELD. Correlation between female reproductive condition and plasma corticosterone in the lizard *Uta stansburiana* 691
WILSON, CHARLES A. (*see* Render, Jeffrey H.)
WINGFIELD, JOHN C. (*see* Wilson, Byron S.)

WINOKUR, ROBERT M. AND STANLEY HILLYARD. Pelvic cutaneous musculature in toads of the genus *Bufo* 760
WINSLOW, STEVEN (*see* Reznick, David N.)
WITHERS, PHILIP C. (*see* Thompson, Graham G.)
WOOD, ROBERT M. AND RICHARD L. MAYDEN. Systematics, evolution, and biogeography of *Notropis chlorocephalus* and *N. lutipinnis* 68
WOOLCOTT, WILLIAM S. (*see* Maurakis, Eugene G.)
WRIGHT, MICHAEL F. (*see* Costanzo, Jon P.)
WYNEKEN, JEANETTE AND MICHAEL SALMON. Frenzy and postfrenzy swimming activity in loggerhead, green, and leatherback hatchling sea turtles 478
YANO, KAZUNARI. Comments on the reproductive mode of the false cat shark *Pseudotriakis microdon* 460
YANO, KAZUNARI AND JOHN A. MUSICK. Comparison of morphometrics of Atlantic and Pacific specimens of the false catshark, *Pseudotriakis microdon*, with notes on stomach contents 877
YATES, TERRY L. (*see* Cook, Joseph A.)
YEARSLEY, G. K. AND P. R. LAST. *Pavoraja* (*Insentiraja*) *laxipella*, a new subgenus and species of skate (Chondrichthyes: Rajoidei) from the Western Pacific 839
ZALISKO, EDWARD J. AND KENNETH V. KARDONG. Histology and histochemistry of the Duvernoy's gland of the brown tree snake *Boiga irregularis* (Colubridae) 791